### INTERNATIONAL SEARCH REPORT

Intentional Application No PCT/EP2004/014460

		101721200-	7 014400			
A. CLASSIF IPC 7	A61K31/675 C07F9/59 C07F9/65	53 C07F9/6558				
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols)  IPC 7 A61K C07F						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic da	ata base consulted during the international search (name of data bas	se and, where practical, search terms used)				
EPO-Internal, CHEM ABS Data, BIOSIS						
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with Indication, where appropriate, of the rela	evant passages	Relevant to claim No.			
Α	HOCKOVA, DANA ET AL: ""Abbreviated" NAD+ analogs containing a phosphonate function" COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, vol. 61, no. 10, 1996, pages 1538-1548, XP009047761		1-44			
A	ISSN: 0010-0765 the whole document HOCKOVA, DANA ET AL: ""Abbreviat	ed" NAD+	1-44			
	analogs containing a phosphonate COLLECTION OF CZECHOSLOVAK CHEMIC COMMUNICATIONS, vol. 61, 1996, pages S52-S54, XPC ISSN: 0010-0765 the whole document	1 44				
Furth	er documents are listed in the continuation of box C.	Patent family members are listed in	annex.			
Special call	legories of cited documents :					
"T" later document published after the international filling date or priority date and not in conflict with the application but considered to be of particular relevance  "T" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the Invention						
*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to						
*L* document which may throw doubts on priority claim(s) or Involve an inventive step when the document is taken alone which is cited to establish the publication date of another "Y* document of particular relevance; the claimed invention						
Cannot be considered to involve an inventive step when the document referring to an oral disclosure, use, exhibition or document is combined with one or more other such document.						
other means  "P" document published prior to the international filing date but later than the priority date claimed  ments, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family						
Date of the a	actual completion of the international search	Date of mailing of the international sear	ch report			
24	4 May 2005	07/06/2005				
Name and n	nailing address of the ISA  European Patent Office, P.B. 5818 Patenthan 2	Authorized officer				
European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Elliott, A				

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1-12, 14-44 (all partially)

The present claims relate to an extremely large number of possible compounds and the use thereof. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds, namely the compounds specifically mentioned in the description and covered by claim 13. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds of claim 13 where a piperidine ring is present (the search covered a broader scope in that a compound containing a cyclic nitrogen was broader — the structure searched was P(0)-C-(0 or S)-(C)1-2-C-N(cyclic).) The two documents cited in the search report are the only documents matching this query.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

#### INTERNATIONAL SEARCH REPORT



Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 1-12, 14-44 (all partially) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this International application, as follows:
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

#### PATENT COOPERATION TREATY

## PCT

#### **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  J 10032 PCT	FOR FURTHER ACTION	as well a	see Form PCT/ISA/220 as, where applicable, item 5 below.			
International application No.	International filing date (day/mont	h/year)	(Earliest) Priority Date (day/month/year)			
PCT/EP2004/014460	18/12/2004		19/12/2003			
Applicant  JERINI AG						
This International Search Report has be according to Article 18. A copy is being to This International Search Report consist X It Is also accompanied by	ransmitted to the International Burea	iu. neets.				
language in which it was filed, u	nless otherwise indicated under this al search was carried out on the basis	item.	is of the international application in the			
	, ,,	e disclosed i	n the international application, see Box No. I.			
2. X Certain claims were fo	2. X Certain claims were found unsearchable (See Box II).					
3. Unity of invention is la	cking (see Box III).					
4. With regard to the <b>title</b> ,						
X the text is approved as	submitted by the applicant.					
the text has been estab	lished by this Authority to read as followed	lows:				
5. With regard to the abstract,						
<u> </u>	submitted by the applicant.	, <b>dh.i.a</b> . <b>d</b> dh. =	was it senses in Day No. 11/ The sensite and			
	•		y as it appears in Box No. IV. The applicant the report, submit comments to this Authority.			
6. With regard to the <b>drawings</b> ,						
a. the figure of the <b>drawings</b> to be	e published with the abstract is Figure	e No				
as suggested b	y the applicant.					
	this Authority, because the applicant	_				
	this Authority, because this figure be	tter characte	rizes the invention.			
b none of the figures is to	be published with the abstract.					

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The present invention is related to compounds having formula (I)

wherein the dashed line indicates a single or double bond or is absent and wherein A¹-A³, Q, R¹-R¹¹, T, U, V, W¹-W³, X¹, X², Y and Z are as defined in the claims and description, pharmaceutical compositions comprising the compounds and the use of the compounds for the manufacture of a medicament for the treatment of diseases involving abnormal cell proliferation, undesired cell proliferation, abnormal mitosis and/or undesired mitosis.

## INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/014460

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER A61K31/675 C07F9/59 C07F9/6	5553 C07F9/6558			
According to	International Patent Classification (IPC) or to both national classif	ication and IPC			
	SEARCHED  cumentation searched (classification system followed by classification)	ation symbols)			
IPC 7	A61K C07F				
Documenta	tion searched other than minimum documentation to the extent tha	t such documents are included in the fields se	earched		
Electronic d	lata base consulted during the international search (name of data	base and, where practical, search terms used	)		
EPO-In	ternal, CHEM ABS Data, BIOSIS				
C. DOCUM	IENTS CONSIDERED TO BE RELEVANT				
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A	HOCKOVA, DANA ET AL: ""Abbrevi analogs containing a phosphonat COLLECTION OF CZECHOSLOVAK CHEM COMMUNICATIONS, vol. 61, no. 10, 1996, pages 15 XP009047761 ISSN: 0010-0765 the whole document	ATIONS, no. 10, 1996, pages 1538-1548, 761 10-0765			
A	HOCKOVA, DANA ET AL: ""Abbrevi analogs containing a phosphonat COLLECTION OF CZECHOSLOVAK CHEM COMMUNICATIONS, vol. 61, 1996, pages S52-S54, X ISSN: 0010-0765 the whole document	e function" NICAL	1-44		
Fu	orther documents are listed in the continuation of box C.	Patent family members are listed	d in annex.		
° Special of	categories of cited documents:		stornational filing data		
"A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or		or priority date and not in conflict winched to understand the principle or invention  "X" document of particular relevance; the cannot be considered novel or cannot be an inventive step when the cannot be considered to involve an document is combined with one or invention of the considered to involve and document is combined with one or invention.	<ul> <li>X° document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>Y° document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled</li> </ul>		
late	r than the priority date claimed	*&" document member of the same pate			
Date of th	ne actual completion of the international search  24 May 2005	Date of mailing of the international s $07/06/2005$	earch report		
Name an	d mailing address of the ISA	Authorized officer			
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Elliott, A			

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# International application No. PCT/EP2004/014460

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